Released Assessment Questions, 2016

QUESTIONS

Grade 9 Assessment of Mathematics • Academic

Read the instructions below.

Along with this booklet, make sure you have the *Answer Booklet* and the Formula Sheet.

You may use any space in this book for rough work for multiple-choice questions only.

The diagrams in these booklets are **not** all drawn to scale.

ATTENTION:

Unlike in the actual assessment booklet, the questions in this booklet are sorted by strand.

There are more multiple-choice questions in this booklet than in a regular booklet.

Education Quality and Accountability Office



Continue to read the directions on the cover of the *Answer Booklet*.

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Remember to write your answers in your *Answer Booklet*.

1 A ball is dropped from a height of 25 m. The ball's height, *H*, in metres, after *n* bounces is represented by the equation below.

$$H = 25 \left(\frac{1}{2}\right)^n$$

What is the height of the ball after 4 bounces?





Which algebraic expression represents the area of **one face** of the cube?



3 A school is planning a car wash to raise \$600. Q. • There will be 8 teams. • Each team will wash 2 cars per hour. • The car wash will last $5\frac{1}{2}$ hours. $-30 = 5h \times 2 = 10$ • Each team will take two 15-minute breaks. /= 30 min How much should the school charge per car to raise exactly \$600? Let "p" rep price \$15.00 а 600 = 8×10×p **b** \$7.50 \$6.82 С $\frac{600}{80} = p$ d \$6.25 75 =P **4** Which of the following is equivalent to 3(5x-1) - 2(3x+5)?a 9x-13 ≠ 6x-3-6x-10 **b** 9x + 4 = 9x - 1321x - 13С d 21x + 4

5 Information about the relationship between the height of a plant and time is shown on the grid below.



Which table of values shows only information about this relationship? A (1,0.5) B(2, 1) C(3, 2) D (4,3.5) E (5,6)

а	Number of weeks	Height (cm)
	1	2
	2	3
	6	5

b	Number of weeks	Height (cm)
	2	1
	3	2
	5	6

С

Number of weeks	Height (cm)
1	1
2	2
4	7

d

Number of weeks	Height (cm)
2	1
3	2
4	4



Open-Response





Go to the *Answer Booklet* and complete the six open-response questions before continuing with question 15.

- 9 Open-Response
- **10** Open-Response
- **11** Open-Response
- 12 Open-Response
- **13** Open-Response
- 14 Open-Response











What is the area of the shape represented below?





